



MOTOMESH Duo™ Wireless Mesh Product, Version 2.1.0

MOTOMESH Duo Release Notes for Version 2.1.0

The MOTOMESH Duo 2.1.0 release is a maintenance release for the MOTOMESH Duo product. The MOTOMESH Duo Product Line is distributed by Motorola Inc.

New Version: R2.1.0

Old Version: R2.0.2

Specific version numbers of software and firmware are included in this release for each system component.

Description: This release includes the following components and version numbers:

MOTOMESH Duo Firmware	9.1.44
Wireless Management System (WMS)	1.0.18
MOTOMESH Link Monitor	2.2.12

These release notes are separated into 3 categories:

- 1) **Existing Issue:** This is an issue that contains a workaround and was previously noted in a prior release
- 2) **Known Issue:** This is a known issue that has a workaround, may exist in a previous release and was not noted in previous Release Notes.
- 3) **Updated issue:** These are issues that were noted in previous releases but have been fixed in this release.



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Existing Issue																																													
Note #:	E-1																																												
Abstract:	Description of the factory default and upgrade behavior of the Adaptive Noise Immunity (ANI) mode.																																												
Reference Number:	PR 2034, 2048, 2370																																												
System Platforms Affected:	MOTOMESH Duo																																												
Special Configurations:	Refer to the user guide for detailed ANI configuration description.																																												
User Symptom:	The ANI mode may be modified upon upgrading to firmware version 9.1.44.																																												
Description:	<p>The tables below describe the behavior of the ANI settings.</p> <table border="1"> <thead> <tr> <th rowspan="2">Firmware version</th> <th colspan="3">ANI Mode Factory Default Value</th> </tr> <tr> <th>Per Unit / Per Radio</th> <th>802.11a Radio</th> <th>802.11b/g Radio</th> </tr> </thead> <tbody> <tr> <td>9.1.44</td> <td>Per Radio</td> <td>Disabled</td> <td>Disabled</td> </tr> <tr> <td>9.0.7x</td> <td>Per Radio</td> <td>Disabled</td> <td>Disabled</td> </tr> <tr> <td>9.0.60</td> <td>Per Radio</td> <td>Enabled</td> <td>Enabled</td> </tr> <tr> <td>9.0.51</td> <td>Per Unit</td> <td colspan="2">Enabled</td> </tr> <tr> <td>1.0.42</td> <td>Per Unit</td> <td colspan="2">Disabled</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th rowspan="2">Upgrade Firmware to 9.1.44 From Version</th> <th colspan="2">ANI Mode After Upgrade</th> </tr> <tr> <th>802.11a Radio</th> <th>802.11b/g Radio</th> </tr> </thead> <tbody> <tr> <td>9.0.7x</td> <td>No override – last used 9.0.7x value</td> <td>No override – last used 9.0.7x value</td> </tr> <tr> <td>9.0.60</td> <td>No override – last used 9.0.60 value</td> <td>No override – last used 9.0.60 value</td> </tr> <tr> <td>9.0.51</td> <td>No override – last used 9.0.51 value</td> <td>Disabled</td> </tr> <tr> <td>1.0.42</td> <td>No override – last used 1.0.42 value</td> <td>Disabled</td> </tr> </tbody> </table>	Firmware version	ANI Mode Factory Default Value			Per Unit / Per Radio	802.11a Radio	802.11b/g Radio	9.1.44	Per Radio	Disabled	Disabled	9.0.7x	Per Radio	Disabled	Disabled	9.0.60	Per Radio	Enabled	Enabled	9.0.51	Per Unit	Enabled		1.0.42	Per Unit	Disabled		Upgrade Firmware to 9.1.44 From Version	ANI Mode After Upgrade		802.11a Radio	802.11b/g Radio	9.0.7x	No override – last used 9.0.7x value	No override – last used 9.0.7x value	9.0.60	No override – last used 9.0.60 value	No override – last used 9.0.60 value	9.0.51	No override – last used 9.0.51 value	Disabled	1.0.42	No override – last used 1.0.42 value	Disabled
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Work Around:	Adjust the ANI mode to the desired value if needed.																																												
<p>Client Radios: In certain high noise environments and where client performance is not what you're expecting, enabling ANI on the 2.4 client radio <i>may</i> improve performance.</p> <p>Backhaul Radios: In certain high noise environments where inter-nodal backhaul performance is not what you're expecting, enabling ANI on the backhaul radio <i>may</i> improve performance.</p> <p>NOTE: If your inter-nodal links have poor RSSI levels and you enable ANI, you may lose communication to that or any neighboring devices, making them inaccessible. This may result in isolated devices which could require over-the-air proximity access to the webpage to disable ANI. Use caution when enabling ANI on devices with marginal inter-nodal links.</p>																																													



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Existing Issue	
Note #:	E-2
Abstract:	Error message indicating failure to resolve nearby device by DNS.
Reference Number:	PR 964
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	Link Monitor
User Symptom:	Attempting to resolve the IP address of nearby devices via DNS will display error message indicating failure to resolve device.
Description:	If you try to resolve the IP address of a nearby device, the DNS resolution may fail under specific circumstances.
Work Around:	<p>Ensure that the DNS configuration for the computer, and for the computer's network adapter don't use hard-coded DNS suffixes. Ensure that the computer's DNS suffix is configured via DNS.</p> <p>For Windows XP, check the following items:</p> <ol style="list-style-type: none"> 1) Control Panel -> System Properties -> Computer Name -> Change -> More : Make sure that the "Primary DNS suffix of this computer" is blank 2) Control Panel -> Network Connections: Right click on the network adapter and select Properties. On the General tab, scroll down to and highlight Internet Protocol (TCP/IP), and select Properties. On the Internet Protocol (TCP/IP) Properties page, select Advanced. On the Advanced TCP/IP Settings page, select the DNS tab. Make sure that "Append these DNS suffices" is NOT selected or set "DNS suffix for this connection" to the DNS name for the network being tested.



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Existing Issue	
Note #:	E-3
Customer / Internal:	
Abstract:	The web interface supports only the Internet Explorer (IE) web browser.
Reference Number:	PR 1315, 2406, 2808
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	The web interface page times out when using a web browser other than IE.
Description:	The MM Duo web interface supports IE. Other web browsers may or may not work.
Work Around:	Use IE web browser to access the web interface.
Engineering Details:	

Existing Issue	
Note #:	E-4
Abstract:	Changing WEP setting on one VAP changes WEP setting on all VAPs.
Reference Number:	PR 567
System Platforms Affected:	MOTOMESH DUO
Special Configurations:	WEP Authentication on more than one VAP.
User Symptom:	Changing WEP settings for one VAP will change the WEP settings for all VAPs that use WEP authentication.
Description:	There are no unique WEP settings per VAP. If WEP authentication is to be used on more than one VAP, all of them have to share one common WEP settings.
Work Around:	Other authentication types such as PSK or WPA can be used and can be unique per VAP.



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Existing Issue	
Note #:	E-5
Abstract:	Some client cards may be unable to receive traffic when QoS is enabled on the client card.
Reference Number:	PR 2503
System Platforms Affected:	MOTOMESH DUO
Special Configurations:	
User Symptom:	A client card that has QoS enabled fails to receive traffic
Description:	A client card that has QoS enabled may fail to receive traffic with priority of 1-6 sent to it from a MM Duo AP
Work Around:	Disable QoS on the client card.

Existing Issue	
Note #:	E-6
Abstract:	The Web interface doesn't expose the MSR Proxy Init Table.
Reference Number:	PR 971
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	n/a
User Symptom:	User won't be able to specify devices to be proxied for by the unit.
Description:	The MM Duo unit will lose track of a proxy that rarely generates traffic (not chatty). Adding an entry in the MSR Proxy Init Table prevents this from happening. The web interface lacks this mechanism.
Work Around:	WMS (or the use of SNMP scripts) can provide this functionality.



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Existing Issue	
Note #:	E-7
Abstract:	Possible no boot situation if 1-ap30.dld doesn't exist.
Reference Number:	PR 1642
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	Using Reset Factory Plug when 1-ap30.dld doesn't exist.
User Symptom:	The device is non-functional, inaccessible, and irrecoverable.
Description:	When uploading a firmware image to the device, the image name should not be changed from the default of ap30.dld. When uploaded, the firmware will be automatically renamed to reflect the firmware slot where it is stored (1-ap30.dld is the default ap30.dld file stored in slot 1). If the firmware filename was renamed from defaults prior to uploading or the unit has no images named 1-ap30.dld and a factory reset plug is used to restore the 2.0 hardware back to factory defaults, the device won't boot and will be unmanageable.
Work Around:	The device is capable of holding two binaries. One must always be named 1-ap30.dld. Don't rename the default files.



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Existing Issue	
Note #:	E-8
Abstract:	Horizontal Scrollbar on Route Table & Neighbor Table windows resets to far left position
Reference Number:	PR 1111
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	Link Monitor
User Symptom:	If you adjust the scroll bar on the route table or neighbor table to the right of the default far left scroll position, it may reset to the far left default position without the user taking any action.
Description:	Whenever a device query update occurs, the neighbor and route tables get re-written, which causes the horizontal scroll bar to be reset to its far left default position.
Work Around:	Either pause the monitor, or change the refresh interval to a value that is long enough to allow you to complete the scroll operation and view the data before another device query completes.

Known Issue	
Note #:	K-1
Abstract:	False backhaul failure detection under heavy backhaul traffic.
Reference Number:	PR 1860
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Loss of the backhaul connection and interrupted service and manageability while the IAP converts to a WR.
Description:	When the backhaul connection is saturated, there's a potential that the backhaul "heart beat" ping responses from the target are lost causing the IAP to falsely detect backhaul failure. Note: Saturating the backhaul connection may be a rare event since most applications are TCP based.
Work Around:	<ul style="list-style-type: none"> ▪ Configure the target of the backhaul "heart beat" ping to send ICMP traffic at high priority. ▪ Modify the backhaul parameters to account for the potential loss.



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Known Issue	
Note #:	K-2
Abstract:	RTS threshold changes when meshing is enabled/disabled
Reference Number:	No PR
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	In a fairly busy RF environment, when meshing is disabled, transmitted frames may exhibit higher drop and corruption rates.
Description:	When meshing is disabled, the RTS threshold is set to 2347 bytes for the radio. When meshing is enabled, RTS threshold is set to 64 bytes for the radio.
Work Around:	When meshing is disabled, the RTS threshold is configurable and can be set to the desired value.

Known Issue	
Note #:	K-3
Abstract:	The SSID for the recovery VAP has been changed
Reference Number:	PR 1378
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	The Ethernet MAC address of the AP must be known in order to access the recovery VAP.
Description:	The SSID for the recovery VAP has been changed to the Ethernet MAC address "XX:XX:XX:XX:XX:XX" of the AP
Work Around:	The recovery VAP SSID is configurable and may be set to the desired value



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Known Issue	
Note #:	K-4
Abstract:	DiffServ to 803.2p mapping is Configurable
Reference Number:	No PR
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	VLAN tagging is enabled
User Symptom:	User can change the default DiffServ to 802.1p mapping for the MM Duo AP.
Description:	<p>When using VLAN tags, the default DiffServ to 802.1p mapping is as follows:</p> <p style="padding-left: 40px;">Default MAP (DSCP 0x00 - 0x3F):</p> <p style="padding-left: 40px;">0x00: 0, 0, 0, 0, 4, 4, 4, 4, 0, 0, 0, 0, 4, 4, 4, 4</p> <p style="padding-left: 40px;">0x10: 0, 0, 0, 0, 4, 4, 4, 4, 3, 0, 0, 0, 4, 4, 4, 4</p> <p style="padding-left: 40px;">0x20: 4, 0, 0, 0, 4, 4, 4, 4, 5, 0, 0, 0, 4, 4, 4, 4</p> <p style="padding-left: 40px;">0x30: 6, 0, 0, 0, 4, 4, 4, 4, 7, 0, 0, 0, 4, 4, 4, 4</p>
Work Around:	

Known Issue	
Note #:	K-5
Abstract:	Devices experience reboot delay after upgrade
Reference Number:	No PR
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Inaccessible devices and loss of communication
Description:	<p>When upgrading MOTOMESH Duo firmware from versions older than 9.1.44, the upgrade reboot cycle will delay startup by at least six minutes. This is to allow the upgraded nodes to be aged out of the group of any existing network nodes that are NOT going to be upgraded at the same time. Failure to age out upgraded nodes would result in network bridging loops.</p>
Work Around:	



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Known Issue	
Note #:	K-6
Abstract:	Firmware version 9.1.44 is not backward compatible.
Reference Number:	No PR
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Inaccessible devices and loss of communication
Description:	This firmware version is incompatible with 9.0.x firmware
Work Around:	

Known Issue	
Note #:	K-7
Abstract:	Web interface channel list may include invalid channels.
Reference Number:	PR 2516
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	When using the web interface, setting the channel to a frequency chosen from the channel list may fail.
Description:	The channel list on the Web interface is static; it includes all valid channels for all regulatory domains. The available channel list is not dynamically updated to display only valid channels for a certain country. The user may chose an invalid channel to be set but the device will fail the request
Work Around:	Refresh the web page after a channel switch request in order to confirm the active/current channel. A failure to set a channel may be an indication of an invalid channel.



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Known Issue																										
Note #:	K-8																									
Abstract:	The MM Duo 4.9 GHz channel numbering scheme has been changed which may cause some stations to fail to associate with the AP																									
Reference Number:	PR 1480, 2706																									
System Platforms Affected:	MOTOMESH Duo																									
Special Configurations:	4.9 GHz radio, suppressed SSID																									
User Symptom:	4.9 GHz station cards not adhering to the IEEE 802.11 2007 standard channel numbering scheme will be unable to associate with VAPs that have SSID suppression enabled.																									
Description:	<p>The 802.11-2007 was recently ratified states in Annex J the proper channel numbers in the US for 4.9 GHz. MM Duo 4.9 GHz channel numbering complies with the standard and is implemented as follows:</p> <p>For US, the following applies:</p> <table border="1"> <thead> <tr> <th>Starting Freq (MHz)</th> <th>Channel Spacing (MHz)</th> <th>Channels</th> </tr> </thead> <tbody> <tr> <td>4890</td> <td>10</td> <td>11, 13, 15, 17, 19</td> </tr> <tr> <td>4850</td> <td>20</td> <td>21, 25</td> </tr> </tbody> </table> <p>Calculated US Channel Frequencies:</p> <table border="1"> <thead> <tr> <th>Channel</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>11</td> <td>4945</td> </tr> <tr> <td>13</td> <td>4955</td> </tr> <tr> <td>15</td> <td>4965</td> </tr> <tr> <td>17</td> <td>4975</td> </tr> <tr> <td>19</td> <td>4985</td> </tr> <tr> <td>21</td> <td>4955</td> </tr> <tr> <td>25</td> <td>4975</td> </tr> </tbody> </table>	Starting Freq (MHz)	Channel Spacing (MHz)	Channels	4890	10	11, 13, 15, 17, 19	4850	20	21, 25	Channel	Frequency	11	4945	13	4955	15	4965	17	4975	19	4985	21	4955	25	4975
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Work Around:	<p>To work around the incompatibility issue, do one of the following:</p> <ol style="list-style-type: none"> 1) Upgrade station card software to IEEE 802.11-2007 standard compliant software. 2) Disable SSID suppression on VAP 15 for the 802.11a radio. 																									



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Known Issue	
Note #:	K-9
Abstract:	Enabling meshing requires the existence of an active VAP on the radio
Reference Number:	PR 2783
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Unable to turn on meshing on the radio.
Description:	If a MM Duo device boots up with no active VAPs on a radio (default for 4.9 GHz units), then meshing can't be enabled on the radio without first enabling a VAP and rebooting the unit.
Work Around:	<ol style="list-style-type: none"> 1) Activate any VAP on the desired radio 2) Reboot the unit 3) Enable meshing on the desired radio 4) Deactivate any unwanted VAPs.

Known Issue	
Note #:	K-10
Abstract:	Netperf tool throughput may not reflect the maximum link throughput capacity
Reference Number:	PR 2572, 2771
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	Netperf server or client resides on a MM Duo unit.
User Symptom:	Netperf throughput may be lower than expected and doesn't reflect the actual link capacity.
Description:	Depending on the configuration and the run test, the Netperf calculated link throughput won't exceed 12Mbps.
Work Around:	



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Known Issue	
Note #:	K-11
Abstract:	Web interface doesn't provide warning prompts
Reference Number:	PR 2792
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	No warning prompts for invalid parameters or an invalid configuration and the applied changes don't take effect.
Description:	<p>On the web interface there's no prompt:</p> <ol style="list-style-type: none"> 1) If any of the following mesh security parameters are entered with an invalid length: PSK Pass Phrase, R0 Key Holder ID, Mobility Domain Identifier, and Group Master Key. 2) When a user attempts to disable encryption, the authentication type is already set to something other than open, and the proper sequence isn't followed. <p>In either case the device doesn't accept the change. However, the user doesn't get a notification of the failure.</p>
Work Around:	<ol style="list-style-type: none"> 1) Upon loading the mesh security page, the mesh security fields are populated with space-delimited, length-matching zeros as a hint. In addition, the fields are all labeled with the required length. 2) A chart of all valid authentication parameter combinations are provided on the Mesh security tab. The correct sequence to disable encryption is as follows: <ol style="list-style-type: none"> a. Change the encryption type to open. b. Apply the changes. c. Disable encryption. d. Apply changes. 3) After applying changes, if the modifications are not reflected on the page, this is an indication of a failure.



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Known Issue	
Note #:	K-12
Abstract:	WMS: No method provided to add or delete configuration parameters to existing templates
Reference Number:	PR 1827
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	For an existing configuration template, there is no method provided to allow the user to add new configuration parameters or to delete configuration parameters from the template.
Description:	WMS does not provide a method to add or delete configuration attributes to existing templates.
Work Around:	Create a new template that includes all of the desired configuration parameters.



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Known Issue	
Note #:	K-13
Abstract:	WMS: Historical Client Statistics are not available when WMS is configured to use SNMPv1 or SNMPv2.
Reference Number:	No PR
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Historical Client Statistics are not available if WMS is configured to use SNMPv1 or SNMPv2 to communicate with MOTOMESH Duo devices.
Description:	Historical Client Statistics include Counter64 statistic parameters that are only supported by SNMPv3. If WMS is configured to communicate to your MOTOMESH Duo devices using SNMPv1 or SNMPv2, then WMS will not be able to collect Historical Client Statistics because they are only available when SNMPv3 is used.
Work Around:	Configure WMS to communicate with MOTOMESH Duo devices using SNMPv3.



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Known Issue	
Note #:	K-14
Abstract:	<p>WMS: When using SNMPv3 with multiple Class B networks...</p> <ol style="list-style-type: none"> 1. Discovery does not start after adding second Class B network in Discovery Configurator. 2. WMS hangs when attempting to load runtime administration. 3. Unable to start WMS services.
Reference Number:	PR 1643, 1713
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	Using SNMPv3 on network devices and configuring multiple Class B networks in Discovery Configurator.
User Symptom:	<p>If your network devices are using SNMPv3 and you attempt to configure discovery of more than one Class B network using the Discovery Configurator, you may notice one or more of the following symptoms:</p> <ol style="list-style-type: none"> 1. Discovery does not start after adding second Class B network in Discovery Configurator. 2. WMS hangs when attempting to load runtime administration. 3. Unable to start WMS services.
Description:	
Work Around:	<p>When network devices are configured to use SNMPv3, you can only configure Discovery Configurator to discover a single Class B network. A single Class B network can be discovered. All other devices that do not belong to the discovered network must be added manually via the Discovery Configurator using "Add Node".</p>



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Known Issue	
Note #:	K-15
Abstract:	WMS will not discover additional devices because licensed limit has been reached.
Reference Number:	PR 2797
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	WMS does not discover new devices even though everything is configured properly. No error or other indication is given other than WMS will not discover new devices.
Description:	When you reach the licensed device count limit, WMS will not discover new devices, but no error or other indication is given when this occurs.
Work Around:	Be aware of your licensed device count limit. When you have reached the device count limit, purchase a new license with a larger device count.



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Known Issue	
Note #:	K-16
Abstract:	WMS: Attempting to reboot a device using Configure Device fails to reboot the device
Reference Number:	PR 2711
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Attempting to reboot a device using Configure Device fails to reboot the device even though the reboot parameter is set to true.
Description:	If you attempt to use the Configure Device command to reboot a device, even though you have set the reboot parameter to true, the command will only get sent to the device the first time you change it from false to true. On subsequent attempts, the database value is already set to true (from the previous use) so WMS will not send the reboot command to the device.
Work Around:	<p>Do not use the Configure Device command to reboot a device. Instead, select the device and then use the “Reboot Device” command available in the “Tools” context menu. This method also allows you to select more than one device to reboot.</p> <p>You can also use a configuration template to initiate a device reboot. Whenever the reboot parameter is included in a configuration template, the reboot will be performed.</p>



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Known Issue	
Note #:	K-17
Abstract:	WMS: During Rediscovery configuration, changing "Hours" to "All" makes selection of "Days"/"Dates" impossible
Reference Number:	PR 2494
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	When you are configuring rediscovery in the Discovery Configurator, changing "Hours" to "All" makes selection of "Days"/"Dates" impossible.
Description:	<p>Steps to reproduce:</p> <ol style="list-style-type: none"> 1. Go to "Tools" > "Runtime Administration". 2. Expand "Topology" and select "Discovery Configurator". 3. Click on "Rediscovery" button. 4. Select "Specific Dates" radio button. 5. Verify "Dates" and "Hours" box has "Specific" radio button selected. 6. Change "Hours" to "All". 7. Click on any dates under "Dates" box. 8. Dates cannot be selected.
Work Around:	You can select the dates if the hour box (radio button) is not selected at all. After selecting the dates you can specify the hour.



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Known Issue	
Note #:	K-18
Abstract:	WMS: Resizing column in inventory panel results in ArrayIndexOutOfBounds when hovering at right end
Reference Number:	PR 2478
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Steps to reproduce: <ol style="list-style-type: none">1. Select Inventory.2. Verify "MAC Address", "Device Name", "IPAddress", "Status", "Device Type" columns shown in order.3. Resize "Status" columns to become smaller so that there is empty space created after "Device Type".4. Move mouse cursor to the right border of "Device Type".5. Verify from Java console output that multiple ArrayIndexOutOfBounds has occurred.
Description:	Resizing "status" column in inventory panel results in ArrayIndexOutOfBounds when hovering at right end
Work Around:	None. This is a non-fatal issue, no functionality is lost.



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Known Issue	
Note #:	K-19
Abstract:	WMS: Have only 2 devices in Inventory. Delete one of them; both are then deleted.
Reference Number:	PR 2413
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	You have only 2 devices listed in the device inventory, you delete one of them, and it then appears that both devices get deleted.
Description:	If you only have 2 devices listed in the device inventory, and you delete one of them, it appears that both devices get deleted, but the second device is not really deleted.
Work Around:	The second device is not really deleted; it's just a display issue. Just click on another branch in the tree and then return to the inventory branch, or close the inventory branch and re-open it. The second device that you did not delete will reappear.



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Known Issue	
Note #:	K-20
Abstract:	WMS: "Save" button is disabled when the "Collected Graph Viewer" is first displayed.
Reference Number:	PR 2310
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	<p>Steps to reproduce:</p> <ol style="list-style-type: none"> 1. Go to "Performance" > "Configured Collection". 2. Select one of the hosts. 3. Select one of the statistics (e.g. Rx Bytes) > right-click > "Plot" > "Collected Statistic" 4. Verify the graph is generated. 5. "Save" button on upper left is disabled. 6. Change to another graph type and return to the previous one. 7. "Save" button is enabled.
Description:	The "Save" button is disabled when the "Collected Graph Viewer" is first displayed.
Work Around:	Change to another graph type and then return to the previous graph type; the "Save" button will then be enabled.



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Known Issue	
Note #:	K-21
Abstract:	WMS: Unable to configure more than 7 VAPs using templates
Reference Number:	PR 2111
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	When you attempt to use a template to configure more than 7 VAPs on a device that is running firmware 9.1.x, the operation fails.
Description:	For devices running 9.1.x firmware, WMS is only able to configure up to 7 VAPs at a time using templates.
Work Around:	If you need to configure more than 7 VAPs on a device, use two separate templates with each holding up to 7 VAP definitions.

Known Issue	
Note #:	K-22
Abstract:	WMS keeps displaying the busy cursor after selecting "View -> Statistics" for a selected device in the Inventory.
Reference Number:	PR 2059
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	After selecting "View -> Statistics" for a device selected in the inventory, WMS will open the "Configured Collection" window for the device and then continuously display the busy cursor.
Description:	WMS keeps displaying the busy cursor after choosing "View -> Statistics" for any device in Inventory.
Work Around:	This is just a display issue. Pressing the "Stop" button will stop the busy cursor.



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Known Issue	
Note #:	K-23
Abstract:	WMS: When you right-click on the MOTOMESH DUO 4300 tree branch, the events and alerts count is always zero
Reference Number:	PR 1874
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	When you right-click on the "MOTOMESH DUO 4300" tree branch and select "Events And Alarms" > "Count", the count of events and alerts will be 0 even if there are events and alerts for MOTOMESH DUO 4300 devices.
Description:	Events and alerts count is zero when right-click on MOTOMESH DUO 4300 branch even if there are events and alerts.
Work Around:	Right-click the "DUO IAP" or "DUO WR" branch instead to determine total count by MOTOMESH DUO 4300 device type.



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Known Issue	
Note #:	K-24
Abstract:	WMS: Security Administration - excluded Change Password option is allowed anyway
Reference Number:	PR 1576
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	<p>To reproduce:</p> <ol style="list-style-type: none"> 1. Create new Group (example: newgroup) and exclude 'Change Password' from Operation Tree Root 2. Add Group to Users (example: newuser) 3. Verify 'Change Password' is excluded from the Permitted Operations for User tab 4. Login newuser 5. newuser is allowed to change password
Description:	WMS users are allowed to change their own password even if "Change Password" is not enabled in their user account security permissions.
Work Around:	None; all users are allowed to change their own password.



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Known Issue	
Note #:	K-25
Abstract:	WMS: "Trap Parser Configuration" window sometimes does not display trap list
Reference Number:	PR 2505
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Sometimes the "Trap Parser Configuration" window does not display the configured traps.
Description:	The Trap Parser Configuration window does not always display the list of traps. If you open and close the window several times (Select Network Events in the tree, then select Edit -> Configure -> Trap Parsers), sometimes the window does not show any traps in the Configured Trap Parser List.
Work Around:	<ol style="list-style-type: none">1. In the Trap Parser Configuration window, click "Load From File". A file dialog will open.2. Click "Load" button. A message dialog will open.3. Click "No" every time the message dialog shows. At the end you will see all the traps in the Configured Trap Parser List.



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Known Issue	
Note #:	K-26
Abstract:	WMS: Devices are not automatically discovered when they are configured to use SNMPv3 only
Reference Number:	PR 2585
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	You have configured your devices to use SNMPv3 only and you notice that they are not automatically discovered by WMS even though you have properly configured the discovery configurator.
Description:	By default, WMS is shipped to use SNMP broadcast to automatically discover network devices. The SNMP broadcast method only works for devices that are configured to use SNMPv1 or SNMPv2. If your network devices are configured to use SNMPv3, and you want WMS to automatically discover them, you will need to first disable the SNMP broadcast method. See work around below.
Work Around:	<p>If you have configured your network devices to use SNMPv3 only, then broadcast discovery needs to be disabled in the following configuration file:</p> <p>Linux: /usr/local/motorola/wms/server/conf/NmsprocessesBE.conf</p> <p>Windows: C:\WMS\conf\NMSProcessesBE.conf</p> <p>Change the DISCOVER_BC_RESP_IPS parameter</p> <p>From: DISCOVER_BC_RESP_IPS true</p> <p>To: DISCOVER_BC_RESP_IPS false</p> <p>Another option is to configure your devices to use SNMPv1 and SNMPv3. Using this strategy will allow WMS to discover new network devices using the SNMPv1 based broadcast method, and then perform all configuration tasks using SNMPv3.</p>



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Known Issue																									
Note #:	K-27																								
Abstract:	WMS: Attempts to connect to the WMS server from a remote web start client fail																								
Reference Number:	No PR																								
System Platforms Affected:	MOTOMESH Duo																								
Special Configurations:																									
User Symptom:	All attempts to connect to the WMS server from a web start client fail.																								
Description:	If you are running a remote web start client, you may not be able to connect to the WMS server if your network connection (between the client/server) does not allow all of the required TCP ports.																								
Work Around:	<p>To allow the remote WMS web start client to start, the following ports are required to be open in your firewall connecting to the network:</p> <table border="0"> <thead> <tr> <th>TCP Port</th> <th>Application</th> </tr> </thead> <tbody> <tr> <td>9090</td> <td>WMS</td> </tr> <tr> <td>32811</td> <td>WMS</td> </tr> <tr> <td>8009</td> <td>WMS</td> </tr> <tr> <td>8010</td> <td>WMS</td> </tr> <tr> <td>8011</td> <td>WMS</td> </tr> <tr> <td>1099</td> <td>RMI (may not be required)</td> </tr> <tr> <td>1476</td> <td>Config Server</td> </tr> <tr> <td>1482</td> <td>Socket Server</td> </tr> <tr> <td>2000</td> <td>NMS Back End Server (BE)</td> </tr> <tr> <td>6900</td> <td>TFTP connection</td> </tr> <tr> <td>8001</td> <td>North-bound Interface (NBI)</td> </tr> </tbody> </table>	TCP Port	Application	9090	WMS	32811	WMS	8009	WMS	8010	WMS	8011	WMS	1099	RMI (may not be required)	1476	Config Server	1482	Socket Server	2000	NMS Back End Server (BE)	6900	TFTP connection	8001	North-bound Interface (NBI)
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Known Issue	
Note #:	K-28
Abstract:	WMS: “SQL syntax error” displayed after opening “Performance -> Configured Collection”
Reference Number:	7383
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	After opening “Performance -> Configured Collection”, a “SQL syntax error” message is displayed.
Description:	Using single quotes in device names will cause SQL syntax errors in the Performance Configured Collection feature.
Work Around:	Do not use single quote characters in device names.

Known Issue	
Note #:	K-29
Abstract:	WMS: Template Export asks for file name but ignores it.
Reference Number:	PR 2699
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	When exporting a template, you enter the name of the file to export to in the dialog; the template will not be exported.
Description:	When exporting a template, the user is prompted to enter a folder to export the template to, but the prompt is confusing because it also includes a “File Name” box.
Work Around:	When exporting a template, the user is prompted to enter a folder to export the template to. The dialog is titled “Select Template Export Folder”. The user must put the name of the folder in the “File Name” box, and not the name of the file as the prompt suggests. If you enter the name of a file in the “File Name” box the template will not be exported. You must enter the name of a folder. The filename will automatically be set to the name of the template with an “.xml” extension.



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Known Issue	
Note #:	K-30
Abstract:	WMS: MOTOMESH Device Web page does not allow device configuration changes to be made from the web browser
Reference Number:	No PR
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	Using Mozilla/Firefox browser
User Symptom:	After selecting a MOTOMESH device in WMS, you launch a web browser using the “Launch Web Page” menu item. The device web page displays, but it does not accept any device configuration changes.
Description:	This only happens if the browser being used is Mozilla/Firefox. The MOTOMESH web page interface does not currently support Mozilla/Firefox.
Work Around:	<ol style="list-style-type: none"> 1. Launch the device web page from a Window-based WMS client, which will use Internet Explorer. 2. Use the WMS Configure Device feature to make device configuration changes. 3. Use the WMS Configuration Templates to make device configuration changes.



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Updated Issue	
Note #:	U-1
Abstract:	Web interface fails to load the 802.11a Radio Settings page.
Reference Number:	PR 1457
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	The 802.11a radio settings webpage is missing most of the fields.
Description:	Issue resolved. When accessing the 802.11a radio settings web page, some or all of the fields may not be displayed. In this release, all fields are visible on the 802.11a radio page.
Work Around:	

Updated Issue	
Note #:	U-2
Abstract:	The AP uses a low data rate for an extensive period of time.
Reference Number:	PR 1366
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Low downstream throughput.
Description:	Issue resolved. In harsh RF environments, the MM Duo AP used to use a low data rate for an extensive period of time when communicating with an associated station. In this release, the MM Duo AP will use the most optimal data rate to yield the best possible throughput.
Work Around:	



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Updated Issue	
Note #:	U-3
Abstract:	The Mesh security certificate field on the web interface is limited to a maximum of 256 bytes.
Reference Number:	PR 1846
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Inability to load a certificate using the web interface.
Description:	Issue resolved. The Mesh security certificate field allows the user to input varying size certificates. Only a maximum of 256 bytes of the certificate gets pushed to the device. In this release, a certificate up to 2KB in size can be pushed to the device.
Work Around:	

Updated Issue	
Note #:	U-4
Abstract:	Logical backhaul detection failure always occurs after recovering from a physical backhaul failure.
Reference Number:	PR 2002, 2418
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Backhaul recovery is delayed after the physical connection is established.
Description:	Issue resolved. After recovering from a physical backhaul failure, the unit goes into a logical failure recovery mode. The recovery will depend on the backhaul detection configuration parameters. If the backhaul is functional, the device will recover in a very reasonable time. In this release, recovery from a physical backhaul failure is not followed by a logical backhaul detection failure.
Work Around:	



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Updated Issue	
Note #:	U-5
Abstract:	Inability to modify 802.11a VAP 3 configuration via the web interface
Reference Number:	PR 2438
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Inability to modify VAP 3 configuration on the 802.11a radio via the web interface.
Description:	Issue resolved. Using the web interface to modify the VAP state (active/inactive) or the VAP AP state, the user is given the indication that the changes were applied successfully although this is not the case: when the VAP 3 page is refreshed, it's noticed that the changes didn't take effect. In this release, VAP3 configuration from the web interface is fully functional.
Work Around:	

Updated Issue	
Note #:	U-6
Abstract:	NetPerf doesn't run from the web interface.
Reference Number:	PR 2200
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	NetPerf is configured from the web interface but the test fails to run.
Description:	Issue resolved. The web interface fails to push down the NetPerf configuration parameters to the device. Consequently, NetPerf fails to run. In this release, NetPerf can be run from the web interface.
Work Around:	



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Updated Issue	
Note #:	U-7
Abstract:	Accessing the web interface may cause a memory leak.
Reference Number:	PR 2419, 2467, 2514, 2405
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	After a very high number of failed or stopped attempts to access the web interface, or having the web interface open for very long periods of time, the unit may become unresponsive.
Description:	Issue resolved. Every time an attempt to access the web interface fails (times out) or is stopped (by clicking the stop button on the web browser), a relatively small chunk of memory is lost. In this release, the memory leak is fixed.
Work Around:	

Updated Issue	
Note #:	U-8
Abstract:	The Network Discrimination feature no longer depends on the SSID.
Reference Number:	No PR
System Platforms Affected:	MOTOMESH DUO
Special Configurations:	Network Discrimination = Enabled
User Symptom:	Network discrimination doesn't work as expected or has no effect.
Description:	The Network Discrimination feature no longer depends on the SSID but rather on the Mesh ID (previously known as LSA SSID) used for mesh security. Mesh ID Discrimination is disabled by default and changing the MeshID only takes effect on reboot. The mesh ID will not be overridden on upgrades, attention must be paid to this field for proper operation of the network discrimination feature.
Work Around:	



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Updated Issue	
Note #:	U-9
Abstract:	Removed weather channels from 5.4 GHz Country Code tables.
Reference Number:	No PR
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	Unit operating in 5.4 GHz band.
User Symptom:	The 3 weather radar sub channels 120 (5600 MHz), 124 (5620 MHz) & 128 (5640 MHz) are not available.
Description:	<p>Issue Resolved. The following channels have been removed from all the Country Code tables:</p> <p>Channel/Frequency: 120/5600 MHz 124/5620 MHz 128/5640 MHz</p> <p>When upgrading from a previous version that support these channels, they are automatically disabled without any user provisioning.</p>
Work Around:	

Updated issue	
Note #:	U-10
Abstract:	Meshing routes may break under heavy unregulated UDP Ethernet traffic.
Reference Number:	PR 1760
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Sporadic brief interruptions in communication or short throughput outages.
Description:	<p>Issue resolved. Flooding the Ethernet port of a MM Duo is with unregulated UDP traffic to be transported over the mesh, causes the transmit queues to overflow and hence to drop packets including vital routing packets. In this release, special handling of vital routing packets is added to avoid dropping them.</p>
Work Around:	Note: it's still recommended to avoid flooding the Ethernet port with unregulated UDP traffic.



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Updated Issue	
Note #:	U-11
Abstract:	Device reboots after a country code lock
Reference Number:	PR 2513
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	After locking the country code using the web interface, the device becomes inaccessible for brief period of time.
Description:	Issue resolved. Locking the country code via the web page causes the device to reboot without any prompts to the user. In this release, locking the country code from the web interface doesn't cause the device to reboot and there's no interruption in accessibility.
Work Around:	

Updated Issue	
Note #:	U-12
Abstract:	Inability to modify 802.11b/g VAP 2 configuration via the web interface
Reference Number:	PR 1849
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Inability to modify VAP 2 configuration on the 802.11b/g radio via the web interface.
Description:	Issue resolved. On the 802.11b/g VAP2 web interface configuration page the "Action to Perform" field is disabled. This prevents a user from being able to modify the configuration of VAP 2. In this release, VAPs 1-15 are all configurable via the web interface.
Work Around:	



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Updated Issue	
Note #:	U-13
Abstract:	Ethernet port auto negotiation between a MM Duo IAP and an Adtran 1224STR switch is not fully supported.
Reference Number:	PR 1687, 1688
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Port link lights may stay off or traffic between the MM Duo IAP and the Adtran switch is intermittent.
Description:	Issue resolved. When a MM Duo IAP is plugged into an Adtran 1224STR switch, the port lights may stay off or the traffic flow between the IAP and the switch is intermittent. In this release, support for Ethernet port speed and duplex mode configuration is added. This allows MM Duo to be configured for compatibility with the Adtran switch.
Work Around:	

Updated Issue	
Note #:	U-14
Abstract:	VAP 0 broadcasts an SSID but doesn't allow station associations.
Reference Number:	PR 1710
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Station cards are unable to associate with VAP 0
Description:	Issue resolved. VAP 0 broadcasts a SSID in its beacon. However, station associations are not allowed on this VAP. Thus any station card attempting to associate with the network advertised by VAP 0 will fail to do so. In this release, VAP 0 is deactivated if meshing is turned off. If meshing is turned on, VAP 0 SSID will be suppressed.
Work Around:	



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Updated Issue	
Note #:	U-15
Abstract:	Web interface gives no warnings of invalid 4.9 GHz channel
Reference Number:	PR 1728
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	User gets no warning when setting an invalid channel
Description:	Issue resolved. The available channels on the web interface for the 4.9 GHz band are fixed whether the channel width is 10 MHz or 20 MHz. Hence, a couple of these channels (edge channels) are invalid when the channel width is 20 MHz. The web interface allows the user to set an invalid channel without any warnings. However, the device/firmware rejects the invalid channel value. In this release, the web interface displays only applicable channels depending on the channel width.
Work Around:	

Updated Issue	
Note #:	U-16
Abstract:	The power setting in the web interface is incorrectly displayed after the antenna gain setting is changed.
Reference Number:	PR 1353
System Platforms Affected:	MOTOMESH DUO
Special Configurations:	n/a
User Symptom:	After changing the antenna gain setting via the web interface and hitting the apply button, the transmit power setting displays the old value.
Description:	Issue resolved. When applying a new antenna gain value via the web interface, the transmit power setting doesn't get adjusted accordingly but rather the original value is displayed instead. The antenna gain field isn't marked to indicate a reboot is required for the change to take effect. In this release, antenna configuration fields are marked for the required reboot.
Work Around:	



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Updated Issue	
Note #:	U-17
Abstract:	Client lost association due to second MIC error
Reference Number:	PR 2155
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	VAP with WPA/TKIP security
User Symptom:	Associated WPA/TKIP client will regularly lose association
Description:	Issue resolved. When configured for WPA/TKIP, a station would lose association due to the occurrence of two MIC errors within the MIC timeout period. The MIC timeout was supposed to be 60 seconds but was set to sixteen minutes instead. The AP would then reject any Association attempts for the duration of that MIC timeout period. In addition, MIC errors in previous firmware releases were counted per radio and not per VAP. Thus, there was a higher chance of encountering two MIC errors within 60 seconds if there are two or more VAPs configured with WPA/TKIP. In firmware version 9.1.40, these issues were corrected so that the MIC timeout is set to the standard 60 seconds value and the MIC errors are counted per VAP not per radio.
Work Around:	



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Updated Issue	
Note #:	U-18
Abstract:	MM Duo AP may reboot when WPA PTK is used.
Reference Number:	PR 1814
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Brief interruption in communication or a short throughput outage.
Description:	Issue resolved. When using WPA PTK, the hardware keys aren't handled correctly and the AP reboots when the hardware key cache is full. In this release, the hardware keys are properly handled and the AP no longer resets.
Work Around:	

Updated Issue	
Note #:	U-19
Abstract:	A station card fails to associate to AP when it switches from WPA2 to WPA VAP.
Reference Number:	PR 2460
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	A station card is unable to associate with an AP
Description:	Issue resolved. A station card that moves from a WPA/WPA2 AES VAP to a WPA/WPA2 TKIP/Auto VAP on the same AP is unable to associate to the WPA/WPA2 TKIP/Auto VAP. In this release, a station card can freely move between VAPs and can still associate with the AP (either VAP)
Work Around:	



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Updated Issue	
Note #:	U-20
Abstract:	The gateway is lost when switching from DHCP IP address to static IP address.
Reference Number:	PR 2417
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	The MM Duo AP becomes unmanageable when switching from DHCP mode to Static IP Address mode.
Description:	<p>Issue resolved. Gateway IP Address behavior is inconsistent when switching from DHCP mode to Static IP Address mode. Sometimes the Gateway IP Address remains persistent and other times the value goes to 0.0.0.0, making the device unmanageable.</p> <p>When DHCP mode is disabled, the Gateway value is extracted from the device boot line, which is saved in NVRAM and can be only set at factory (not a user configurable value). The default value is (0.0.0.0). In this release, when DHCP is disabled, the DHCP Gateway value is used unless the boot line value is not (0.0.0.0).</p>
Work Around:	



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Updated Issue	
Note #:	U-21
Abstract:	The WEP key field on the web interface doesn't have a length check
Reference Number:	PR 2265
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	It's possible to exceed the appropriate WEP key length when configuring the AP
Description:	Issue resolved. The web interface lacked a size check when entering a WEP key. In this release, a size check has been added.
Work Around:	

Updated Issue	
Note #:	U-22
Abstract:	Added support for channel 165 (5.825 GHz)
Reference Number:	PR 1556
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Will be able to select channel 165 in the 5.8 GHz band.
Description:	Channel 165 (5.825) has been added to the list of supported channels for the 5.8 GHz band.
Work Around:	